



Performance Data Sheet

AWF5528EVA

General Information

Model	AWF5528EVA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	6180	4940					
	Watts	999	972					
	Amps	5.08	5.07					
	Lb/h	79.7	66.6					
-10	Btu/h	7810	6600	5390				
	Watts	1080	1070	1060				
	Amps	5.42	5.46	5.49				
	Lb/h	100	88.1	75.4				
-5	Btu/h	9500	8290	7090	5870			
	Watts	1150	1150	1170	1180			
	Amps	5.72	5.82	5.90	5.96			
	Lb/h	121	110	97.9	85.2			
0	Btu/h	11300	10000	8820	7600	6360		
	Watts	1210	1230	1260	1290	1310		
	Amps	5.98	6.14	6.29	6.41	6.48		
	Lb/h	142	132	121	109	95.7		
5	Btu/h	13100	11900	10600	9360	8090		
	Watts	1260	1300	1350	1390	1430		
	Amps	6.20	6.42	6.63	6.82	6.97		
	Lb/h	165	155	144	133	120		
10	Btu/h	15100	13800	12500	11200	9860	8520	7160
	Watts	1300	1360	1420	1490	1540	1580	1600
	Amps	6.39	6.67	6.95	7.21	7.43	7.59	7.67
	Lb/h	189	179	168	157	145	131	117
15	Btu/h	17300	15900	14500	13100	11700	10300	8860
	Watts	1330	1410	1490	1570	1640	1700	1730
	Amps	6.54	6.88	7.23	7.56	7.85	8.09	8.25
	Lb/h	215	205	194	183	171	157	143
20	Btu/h	19600	18100	16600	15100	13600	12100	10600
	Watts	1360	1450	1550	1650	1740	1810	1860
	Amps	6.65	7.06	7.47	7.88	8.25	8.57	8.81
	Lb/h	242	232	221	210	198	184	169

25	Btu/h	22200	20600	19000	17300	15700	14100	12500
	Watts	1370	1480	1600	1720	1820	1910	1980
	Amps	6.72	7.20	7.68	8.16	8.61	9.01	9.35
	Lb/h	272	262	251	239	226	212	197
30	Btu/h	25000	23200	21500	19700	17900	16200	14400
	Watts	1380	1510	1640	1780	1900	2010	2090
	Amps	6.76	7.30	7.86	8.41	8.94	9.43	9.85
	Lb/h	305	294	282	270	257	242	227
35	Btu/h	28100	26200	24200	22300	20300	18400	16500
	Watts	1380	1520	1680	1830	1970	2100	2200
	Amps	6.75	7.36	8.00	8.63	9.25	9.82	10.3
	Lb/h	340	328	316	303	289	274	258
40	Btu/h	31500	29300	27200	25100	23000	20900	18700
	Watts	1370	1530	1700	1870	2030	2180	2300
	Amps	6.71	7.39	8.10	8.82	9.51	10.2	10.8
	Lb/h	379	366	353	339	324	308	291
45	Btu/h	35200	32900	30500	28200	25800	23500	21200
	Watts	1350	1530	1720	1910	2090	2250	2390
	Amps	6.62	7.38	8.17	8.97	9.75	10.5	11.2
	Lb/h	421	408	393	378	362	345	327
50	Btu/h	39300	36700	34100	31500	29000	26400	23800
	Watts	1320	1520	1730	1940	2130	2310	2470
	Amps	6.50	7.34	8.21	9.09	9.96	10.8	11.6
	Lb/h	468	453	437	421	403	385	365
55	Btu/h	43800	40900	38000	35200	32400	29600	26800
	Watts	1290	1500	1730	1960	2170	2370	2540
	Amps	6.34	7.25	8.20	9.17	10.1	11.1	11.9
	Lb/h	519	502	485	467	448	428	407

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.178124E+04	2.382795E+03	6.926313E+00	2.271724E+02
C2	4.244036E+02	-1.614041E+01	-1.792702E-02	3.608198E+00
C3	-1.481824E+02	-4.008051E+01	-6.098500E-02	-1.274860E+00
C4	5.744532E+00	-2.121590E-01	-1.032163E-03	5.212762E-02
C5	-9.936166E-01	3.473763E-01	5.231633E-04	9.222071E-03
C6	2.960322E-01	4.322791E-01	8.870614E-04	5.124860E-03
C7	3.742649E-02	5.724398E-05	-3.487655E-07	4.313427E-04
C8	-4.540538E-02	4.040712E-04	3.594008E-06	-3.937843E-04
C9	2.663831E-03	-7.647966E-05	3.852804E-06	8.188577E-06
C10	-1.102422E-03	-1.437179E-03	-3.412681E-06	-3.028541E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

AWF5528EVA

General Information

Model	AWF5528EVA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	6470	5540					
	Watts	1210	1210					
	Amps	5.13	5.12					
	Lb/h	83.0	74.4					
-10	Btu/h	8460	7430	6410				
	Watts	1310	1320	1330				
	Amps	5.43	5.46	5.50				
	Lb/h	108	99.0	89.5				
-5	Btu/h	10600	9430	8300	7180			
	Watts	1400	1430	1450	1460			
	Amps	5.72	5.79	5.87	5.93			
	Lb/h	134	125	115	104			
0	Btu/h	12800	11600	10300	9070	7830		
	Watts	1480	1520	1560	1590	1600		
	Amps	5.99	6.10	6.24	6.35	6.42		
	Lb/h	162	152	141	130	117		
5	Btu/h	15200	13800	12500	11100	9720		
	Watts	1560	1610	1660	1710	1740		
	Amps	6.24	6.40	6.58	6.75	6.88		
	Lb/h	191	181	169	157	144		
10	Btu/h	17800	16300	14800	13300	11700	10200	8710
	Watts	1630	1700	1760	1820	1870	1900	1900
	Amps	6.46	6.67	6.91	7.14	7.33	7.45	7.46
	Lb/h	222	211	199	187	173	158	142
15	Btu/h	20500	18900	17200	15600	13900	12300	10600
	Watts	1690	1770	1850	1930	1990	2040	2070
	Amps	6.65	6.92	7.22	7.51	7.76	7.95	8.04
	Lb/h	255	243	231	218	204	188	171
20	Btu/h	23500	21700	19900	18100	16300	14500	12600
	Watts	1730	1830	1930	2030	2110	2180	2220
	Amps	6.82	7.14	7.50	7.85	8.18	8.44	8.60
	Lb/h	290	277	265	251	236	220	202

25	Btu/h	26700	24700	22700	20800	18800	16800	14800
	Watts	1770	1890	2010	2120	2220	2310	2370
	Amps	6.95	7.33	7.75	8.17	8.57	8.90	9.15
	Lb/h	327	314	301	286	271	254	236
30	Btu/h	30100	27900	25800	23700	21500	19400	17200
	Watts	1800	1930	2070	2200	2320	2430	2520
	Amps	7.05	7.49	7.97	8.46	8.93	9.35	9.68
	Lb/h	366	353	339	324	308	291	272
35	Btu/h	33700	31400	29100	26800	24500	22200	19800
	Watts	1820	1970	2120	2270	2410	2540	2650
	Amps	7.10	7.61	8.16	8.72	9.26	9.76	10.2
	Lb/h	409	395	380	365	348	330	311
40	Btu/h	37700	35200	32700	30200	27700	25200	22600
	Watts	1820	1990	2160	2330	2500	2650	2780
	Amps	7.11	7.68	8.30	8.94	9.57	10.1	10.7
	Lb/h	453	439	424	408	391	372	352
45	Btu/h	41900	39200	36500	33800	31100	28400	25700
	Watts	1810	2000	2190	2380	2570	2740	2900
	Amps	7.08	7.72	8.41	9.13	9.83	10.5	11.1
	Lb/h	501	486	471	454	436	417	396
50	Btu/h	46400	43500	40600	37700	34800	31900	29000
	Watts	1780	1990	2210	2420	2630	2820	3000
	Amps	6.99	7.70	8.47	9.27	10.1	10.8	11.5
	Lb/h	552	537	521	504	485	465	444
55	Btu/h	51200	48100	45000	41900	38800	35700	32500
	Watts	1740	1970	2210	2440	2670	2890	3100
	Amps	6.85	7.64	8.49	9.37	10.2	11.1	11.9
	Lb/h	607	591	574	556	537	517	495

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.416834E+04	1.693128E+03	9.322457E+00	2.606757E+02
C2	6.531445E+02	2.121899E-01	9.873294E-03	6.404008E+00
C3	-1.641655E+02	-1.500295E+01	-1.268026E-01	-1.748365E+00
C4	4.431401E+00	-2.553922E-01	-8.513742E-04	3.038004E-02
C5	-2.312111E+00	1.308364E-01	1.717721E-04	-7.543476E-03
C6	3.669053E-01	2.268757E-01	1.482217E-03	1.011111E-02
C7	2.177787E-02	-9.879899E-04	-4.236091E-06	2.419215E-04
C8	-1.705034E-02	1.317027E-03	5.371372E-06	1.129709E-06
C9	-6.796640E-04	8.290960E-04	4.400142E-06	-1.908364E-05
C10	-1.113283E-03	-9.021036E-04	-5.228504E-06	-4.570591E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature